

## **DISTRIBUTED NAVIGATION SYSTEM**

### **ABSTRACT OF THE DISCLOSURE**

Computer-assisted navigation is achieved with component-oriented programming and instructions that provide a distributed component programming  
5 navigation system. The computer-assisted navigation is achieved with a computing device having program memory that includes a component-oriented application that provides a distributed navigation system comprising a User Interface component, a Service Manager component, a User Positioning category of components that provides a user position based on navigation sensor data, and a Mapping category  
10 of components that accesses a map database and places the user position on a road segment of the map database, wherein the components within the navigation module are managed by the service manager to perform distributed navigation services.

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